Certificate No: LR2037486TA
Issue Date: 28/10/2020
Expiry Date: 27/10/2025

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	**Yada Piping Solution Co.,Ltd**
Address	Xin Feng Industrial Zone, Nanhu District, Jiaxing, 314005, China
Place of Production	Zhejiang Tianmu Technology Co., Ltd. No.8 Building 255 Lane Longzhu Street Qisi Village Shacheng Street Wenzhou Economic and Technological Development Zone, Wenzhou, Zhejiang, China
Type	Mechanical Pipe Joints
Description	Cap/Straight Coupling/Reducer Coupling/Tee/Elbow/Internal Thread Coupling/External Thread Coupling/Bridge/Straight Pipe Coupling/Flame Coupling
Trade Name	Mechanical joints-Press fittings Type D/Type S
Application	Marine & Offshore piping systems applicable for drinking water, domestic water, cold water, hot water and sea water of non-essential service.
Specified Standard	LR Rules and Regulations for the Classification of Ships, July 2019 Lloyd's Register Type Approval System Test Specification Number 2, Chapter 5, Appendix 4 - Mechanical Pipe Joints – Fixed Connections IACS UR P2 "Mechanical joints" (Rev. 9 Oct 2018) ISO 19921 : 2005(E) ISO 19922 : 2005(E)

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A member of the Lloyd's Register group

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Type Approval Certificate

Ratings

Cap:	Type D/Type S
Nominal Diameter (mm):	DN15~DN100
Nominal Wall Thickness(mm):	0.6~1.5
Nominal Pressure Rating(bar):	16
Working Temperature Range (˚C):	-20~110(Stainless Steel316L/304L)
Materials:	Stainless Steel 316L/304L
	EPDM (Seal)
Straight Coupling:	Type D/Type S
Nominal Diameter (mm):	DN15~DN100
Nominal Wall Thickness(mm):	0.6~1.5
Nominal Pressure Rating(bar):	16
Working Temperature Range (˚C):	-20~110(Stainless Steel316L/304L)
Materials:	Stainless Steel 316L/304L
	EPDM (Seal)
Reducer Coupling:	Type D/Type S
Nominal Diameter (mm):	DN15~DN100
Nominal Wall Thickness(mm):	0.6~1.5
Nominal Pressure Rating(bar):	16
Working Temperature Range (˚C):	-20~110(Stainless Steel316L/304L)
Materials:	Stainless Steel 316L/304L
	EPDM (Seal)
Straight Tee:	Type D/Type S
Nominal Diameter (mm):	DN15~DN100
Nominal Wall Thickness(mm):	0.6~1.5
Nominal Pressure Rating(bar):	16
Working Temperature Range (˚C):	-20~110(Stainless Steel316L/304L)
Materials:	Stainless Steel 316L/304L
	EPDM (Seal)
Reducer Tee:	Type D/Type S
Nominal Diameter (mm):	DN15~DN100
Nominal Wall Thickness(mm):	0.6~1.5

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Nominal Pressure Rating(bar):	16
Working Temperature Range (˚C):	-20~110(Stainless Steel316L/304L)
Materials:	Stainless Steel 316L/304L EPDM (Seal)

Tee with Female Thread End:	Type D/Type S
Nominal Diameter(mm):	DN15~DN100
Nominal Wall Thickness(mm):	0.6~1.5
Nominal Pressure Rating (bar):	16
Working Temperature Range (˚C):	-20~110(Stainless Steel316L/304L)
Materials:	Stainless Steel 316L/304L EPDM(Seal)

Tee with Male Thread End:	Type D/Type S
Nominal Diameter (mm):	DN15~DN50
Nominal Wall Thickness(mm):	0.6~1.2
Nominal Pressure Rating (bar):	16
Working Temperature Range (˚C):	-20~110(Stainless Steel316L/304L)
Materials:	Stainless Steel 316L/304L EPDM (Seal)

A-90˚ Elbow:	Type D/Type S
Nominal Diameter (mm):	DN15~DN100
Nominal Wall Thickness(mm):	0.6~1.5
Nominal Pressure Rating(bar):	16
Working Temperature Range (˚C):	-20~110(Stainless Steel316L/304L)
Materials:	Stainless Steel 316L/304L EPDM(Seal)

B-90˚ Elbow:	Type D/Type S
Nominal Diameter (mm):	DN15~DN100
Nominal Wall Thickness (mm):	0.6~1.5
Nominal Pressure Rating(bar):	16
Working Temperature Range (˚C):	-20~110(Stainless Steel316L/304L)
Materials:	Stainless Steel 316L/304L EPDM (Seal)

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90˚ Female Elbow:	Type D/Type S
Nominal Diameter (mm):	DN15~DN50
Nominal Wall Thickness(mm):	0.6~1.2 (Type D)/0.6~1.0(Type S)
Nominal Pressure Rating(bar):	16
Working Temperature Range (˚C):	-20~110(Stainless Steel316L/304L)
Materials:	Stainless Steel 316L/304L EPDM (Seal)

90˚ Male Elbow:	Type D/Type S
Nominal Diameter(mm):	DN15~DN50
Nominal Wall Thickness(mm):	0.6~1.2 (Type D)/0.6~1.0(Type S)
Nominal Pressure Rating(bar):	16
Working Temperature Range (˚C):	-20~110(Stainless Steel316L/304L)
Materials:	Stainless Steel 316L/304L EPDM(Seal)

90˚ Reducer Elbow:	Type D
Nominal Diameter (mm):	DN15~DN50
Nominal Wall Thickness(mm):	0.6~1.2
Nominal Pressure Rating(bar):	16
Working Temperature Range (˚C):	-20~110(Stainless Steel316L/304L)
Materials:	Stainless Steel 316L/304L EPDM (Seal)

90˚ Reducer Elbow-Short:	Type S
Nominal Diameter (mm):	DN15~DN50
Nominal Wall Thickness(mm):	0.6~1.0
Nominal Pressure Rating(bar):	16
Working Temperature Range (˚C):	-20~110(Stainless Steel316L/304L)
Materials:	Stainless Steel 316L/304L EPDM (Seal)

90˚ Female Elbow-Short:	Type D/Type S
Nominal Diameter (mm):	DN15~DN25
Nominal Wall Thickness(mm):	0.6~1.0 (Type D)/0.6~0.8(Type S)

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Nominal Pressure Rating(bar):	16
Working Temperature Range (˚C):	-20~110(Stainless Steel316L/304L)
Materials:	Stainless Steel 316L/304L EPDM(Seal)
A-45˚Elbow:	Type D/Type S
Nominal Diameter (mm):	DN15~DN100
Nominal Wall Thickness (mm):	0.6~1.5
Nominal Pressure Rating(bar):	16
Working Temperature Range (˚C):	-20~110(Stainless Steel316L/304L)
Materials:	Stainless Steel 316L/304L EPDM (Seal)
B-45˚Elbow:	Type D/Type S
Nominal Diameter(mm):	DN15~DN100
Nominal Wall Thickness(mm):	0.6~1.5
Nominal Pressure Rating (bar):	16
Working Temperature Range (˚C):	-20~110(Stainless Steel316L/304L)
Materials:	Stainless Steel 316L/304L EPDM (Seal)
Internal Thread Coupling:	Type D/Type S
Nominal Diameter (mm):	DN15~DN50
Nominal Wall Thickness(mm):	0.6~1.2 (Type D)/0.6~1.0(Type S)
Nominal Pressure Rating(bar):	16
Working Temperature Range (˚C):	-20~110(Stainless Steel316L/304L)
Materials:	Stainless Steel 316L/304L EPDM (Seal)
External Thread Coupling:	Type D/Type S
Nominal Diameter (mm):	DN15~DN80
Nominal Wall Thickness (mm):	0.6~1.5 (Type D)/0.6~1.0(Type S)
Nominal Pressure Rating(bar):	16
Working Temperature Range (˚C):	-20~110(Stainless Steel316L/304L)
Materials:	Stainless Steel 316L/304L EPDM (Seal)

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Bridge:	
Nominal Diameter(mm):	DN15~DN25
Nominal Wall Thickness(mm):	0.6~1.2
Nominal Pressure Rating(bar):	16
Working Temperature Range (˚C):	-20~110(Stainless Steel316L/304L)
Materials:	Stainless Steel 316L/304L EPDM(Seal)
Straight Pipe Coupling:	
Nominal Diameter (mm):	DN15~DN25
Nominal Wall Thickness(mm):	0.6~1.2
Nominal Pressure Rating(bar):	16
Working Temperature Range (˚C):	-20~110(Stainless Steel316L/304L)
Materials:	Stainless Steel 316L/304L EPDM(Seal)
Flange Coupling:	Type D/Type S
Nominal Diameter (mm):	DN15~DN100
Nominal Wall Thickness(mm):	0.6~1.5
Nominal Pressure Rating(bar):	16
Working Temperature Range (˚C):	-20~110(Stainless Steel316L/304L)
Materials:	Stainless Steel 316L/304L EPDM (Seal)

Additional Tests

Fire resistance test has been conducted according to ISO 19921 : 2005(E) and ISO 19922 : 2005(E).

Other Conditions

1. Materials for mechanical pipe joints used in Class I and Class II piping systems are to be produced at a works approved by LR and are to be tested in accordance with the Rules for Materials as per Part5, Chapter

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Type Approval Certificate

12, Section 1.7.1.

2. Mechanical pipe joints are to be selected and installed in accordance with the manufacturer's instructions.
3. In all cases, pressure and temperature ratings of the fittings are to be suitable for the intended service conditions.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register Classification Society (China) Co Ltd of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document No. LR2037486TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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